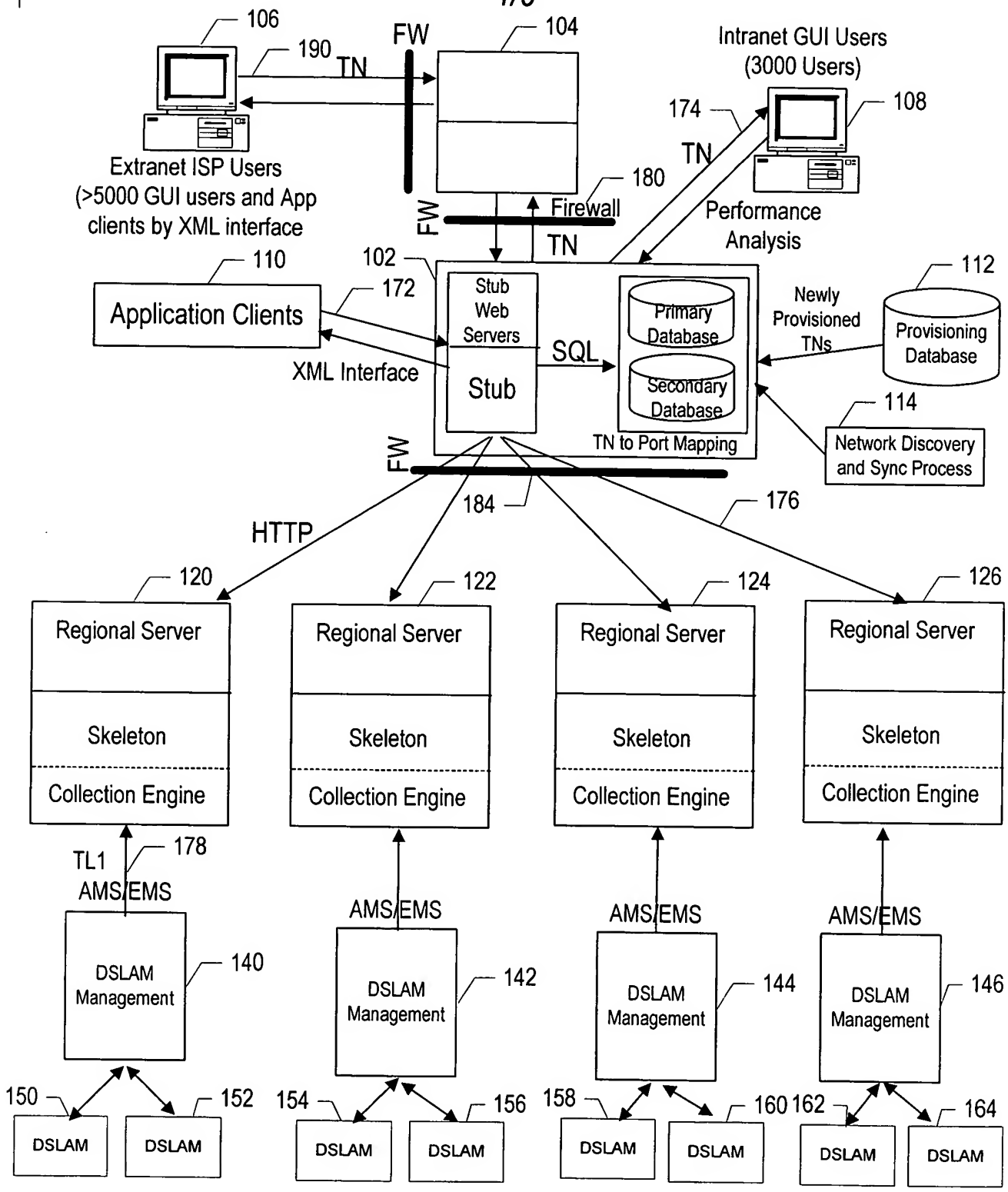
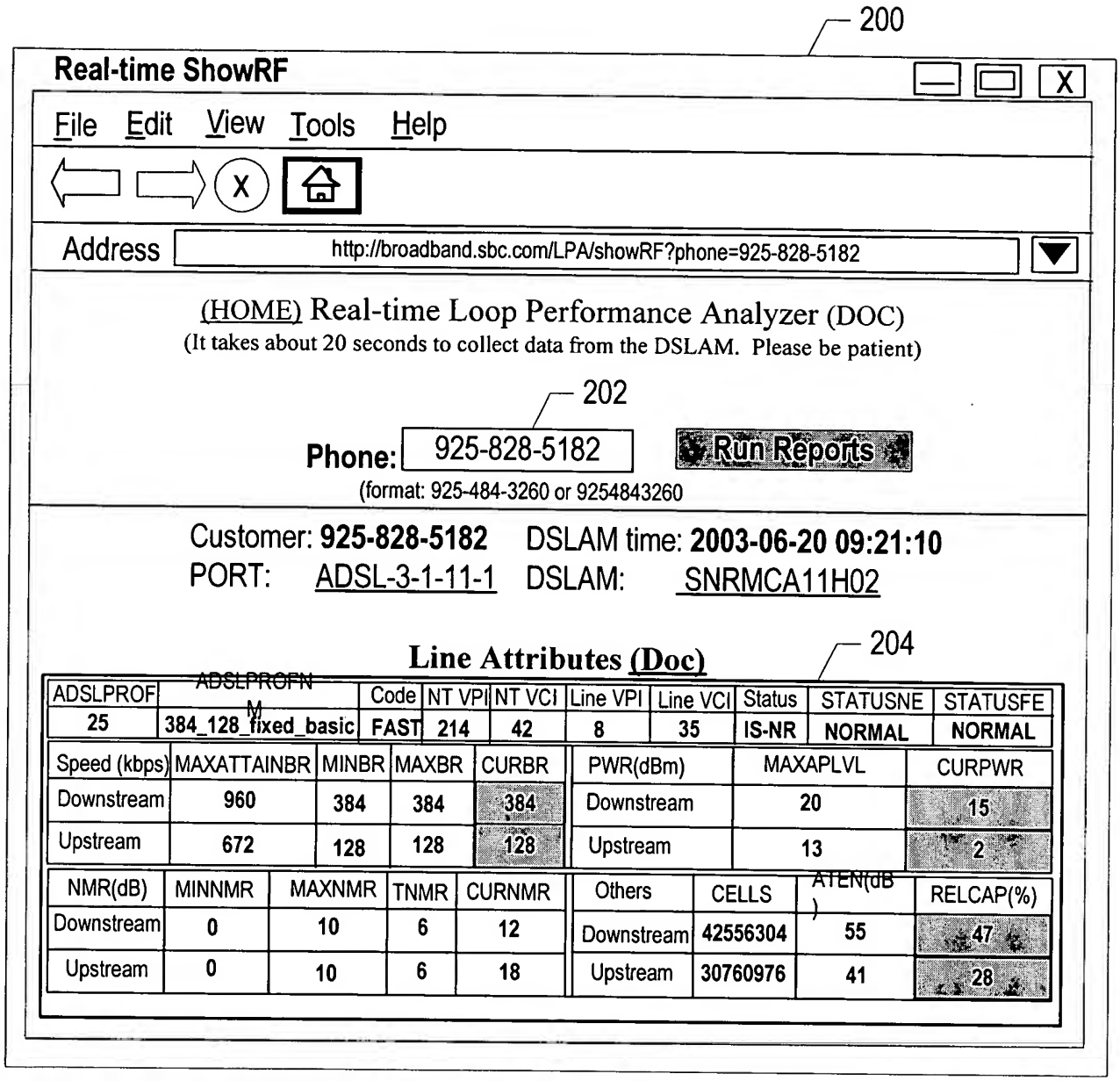

106
190
TN
FW
104
Intranet GUI Users
(3000 Users)
174
108
TN
Extranet ISP Users
(>5000 GUI users and App
clients by XML interface
180
Firewall
FW
TN
Performance
Analysis
110
102
112
Application Clients
172
Stub
Web
Servers
Primary
Database
Newly
Provisioned
TNs
Provisioning
Database
SQL
XML Interface
Stub
Secondary
Database
114
TN to Port Mapping
Network Discovery
and Sync Process
FW
184
176
HTTP
120
122
124
126
Regional Server
Regional Server
Regional Server
Regional Server
Skeleton
Skeleton
Skeleton
Skeleton
Collection Engine
Collection Engine
Collection Engine
Collection Engine
TL1
AMS/EMS
178
AMS/EMS
AMS/EMS
AMS/EMS
DSLAM
Management
140
DSLAM
Management
142
DSLAM
Management
144
DSLAM
Management
146
150
152
154
156
158
160
162
164
DSLAM
DSLAM
DSLAM
DSLAM
DSLAM
DSLAM
DSLAM
DSLAM

FIG. 1



ADSLPROF	ADSLPROFNM	Code	NT VPI	NT VCI	Line VPI	Line VCI	Status	STATUSNE	STATUSFE
25	384_128_fixed_basic	FAST	214	42	8	35	IS-NR	NORMAL	NORMAL

Speed (kbps)	MAXATTAINBR	MINBR	MAXBR	CURBR	PWR(dBm)	MAXAPLVL	CURPWR
Downstream	960	384	384	384	Downstream	20	15
Upstream	672	128	128	128	Upstream	13	2

NMR(dB)	MINNMR	MAXNMR	TNMR	CURNMR	Others	CELLS	ATEN(dB)	RELCAP(%)
Downstream	0	10	6	12	Downstream	42556304	55	47
Upstream	0	10	6	18	Upstream	30760976	41	28

FIG. 2

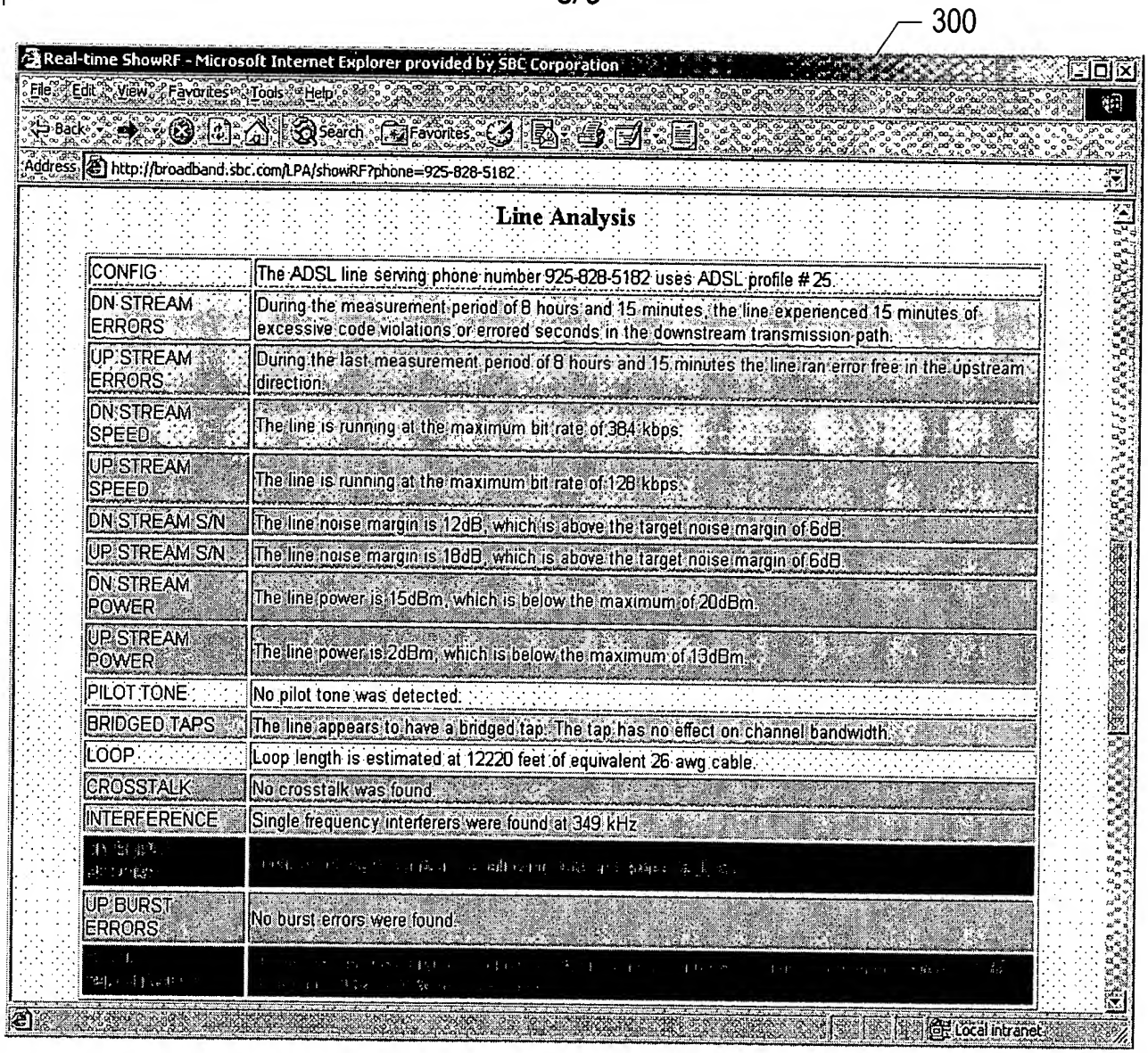


FIG. 3

ST AVAILABLE COPY

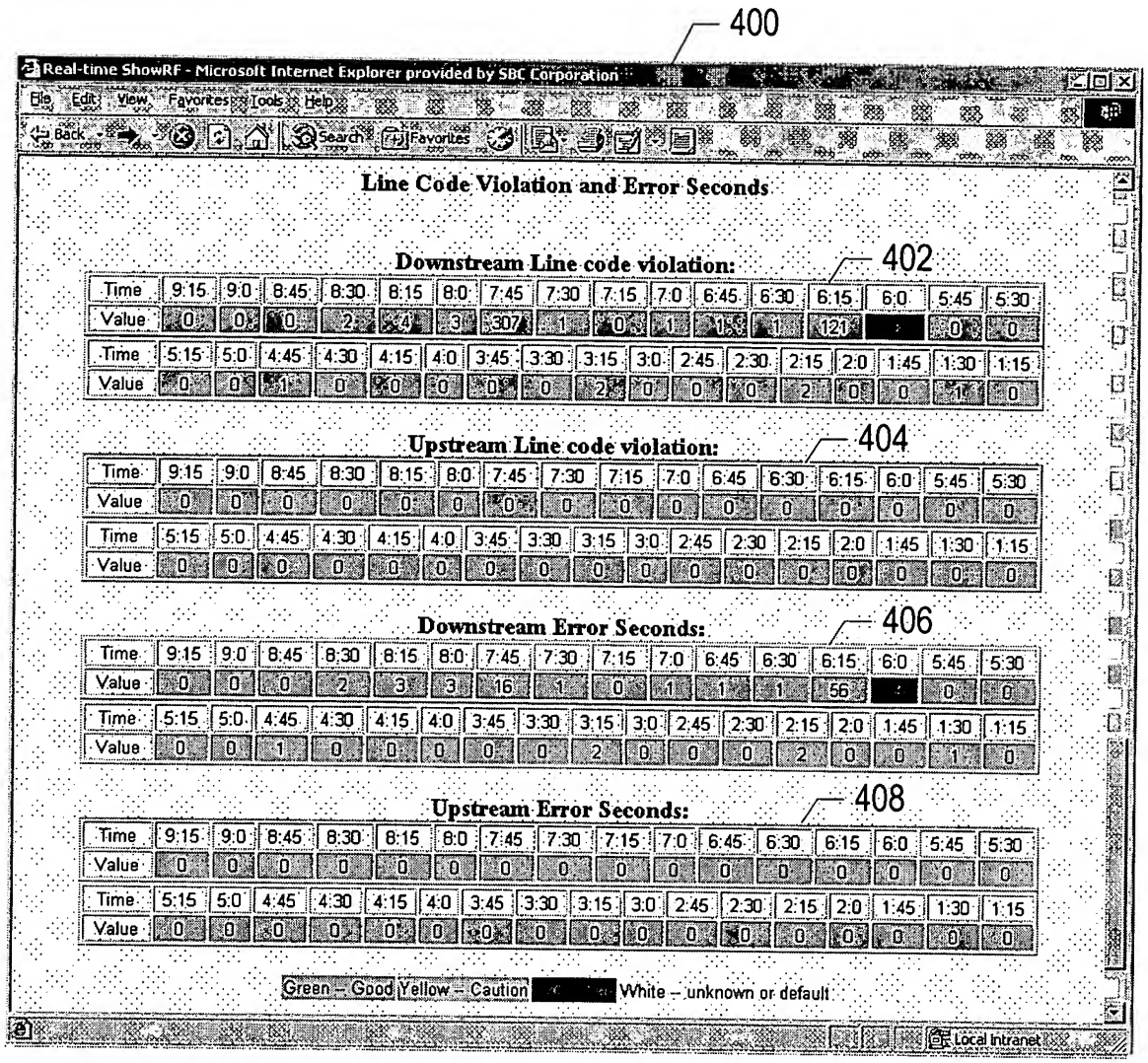

400
Real-time ShowRF - Microsoft Internet Explorer provided by SBC Corporation
File Edit View Favorites Tools Help
Back Search Favorites
Line Code Violation and Error Seconds
Downstream Line code violation:
402
Upstream Line code violation:
404
Downstream Error Seconds:
406
Upstream Error Seconds:
408
Time
Value
Green – Good
Yellow – Caution
White – unknown or default
Local Intranet

FIG. 4

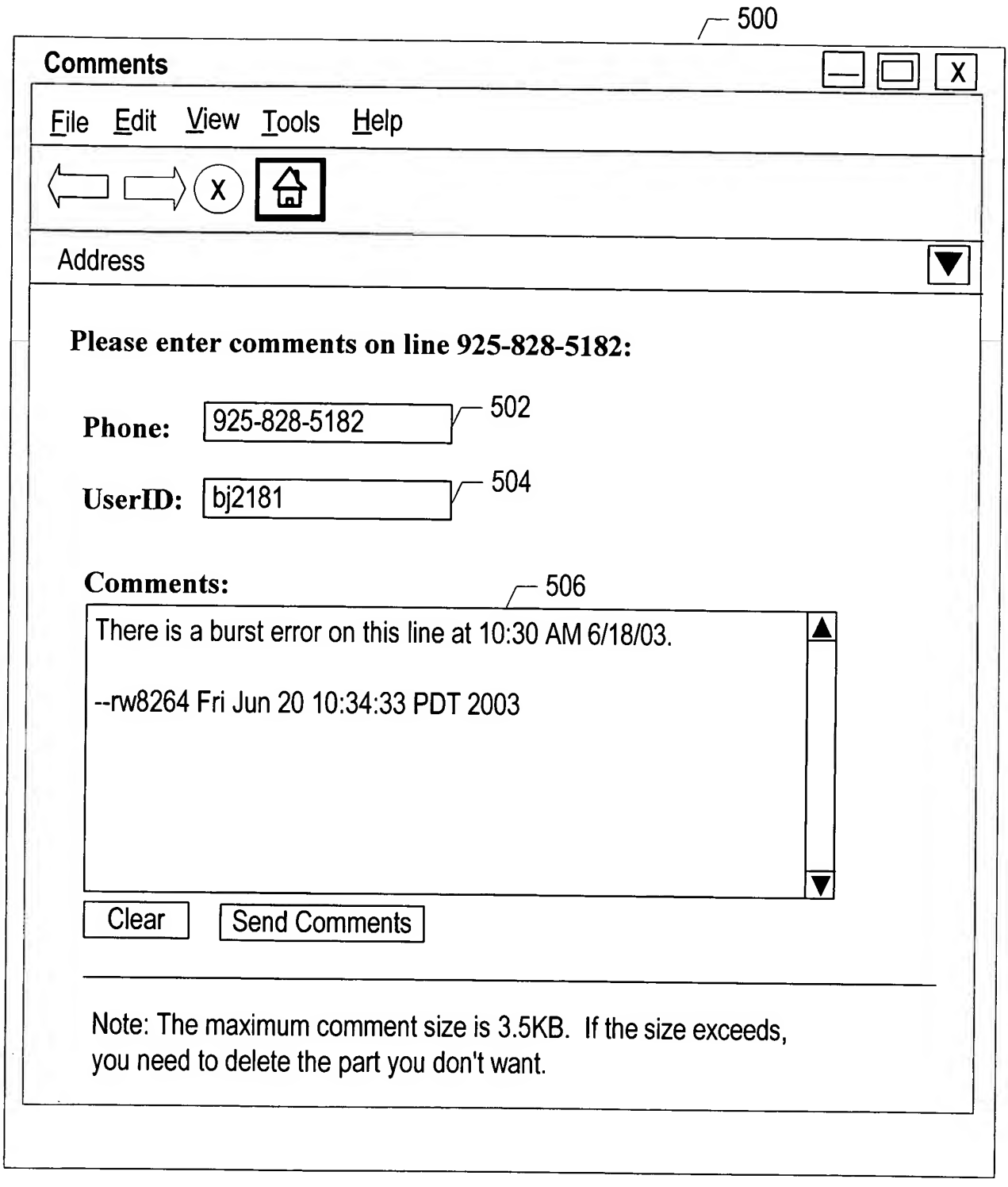

500
Comments
File Edit View Tools Help
Address
Please enter comments on line 925-828-5182:
Phone:
925-828-5182
502
UserID:
bj2181
504
Comments:
506
There is a burst error on this line at 10:30 AM 6/18/03.
--rw8264 Fri Jun 20 10:34:33 PDT 2003
Clear
Send Comments
Note: The maximum comment size is 3.5KB. If the size exceeds, you need to delete the part you don't want.

FIG. 5

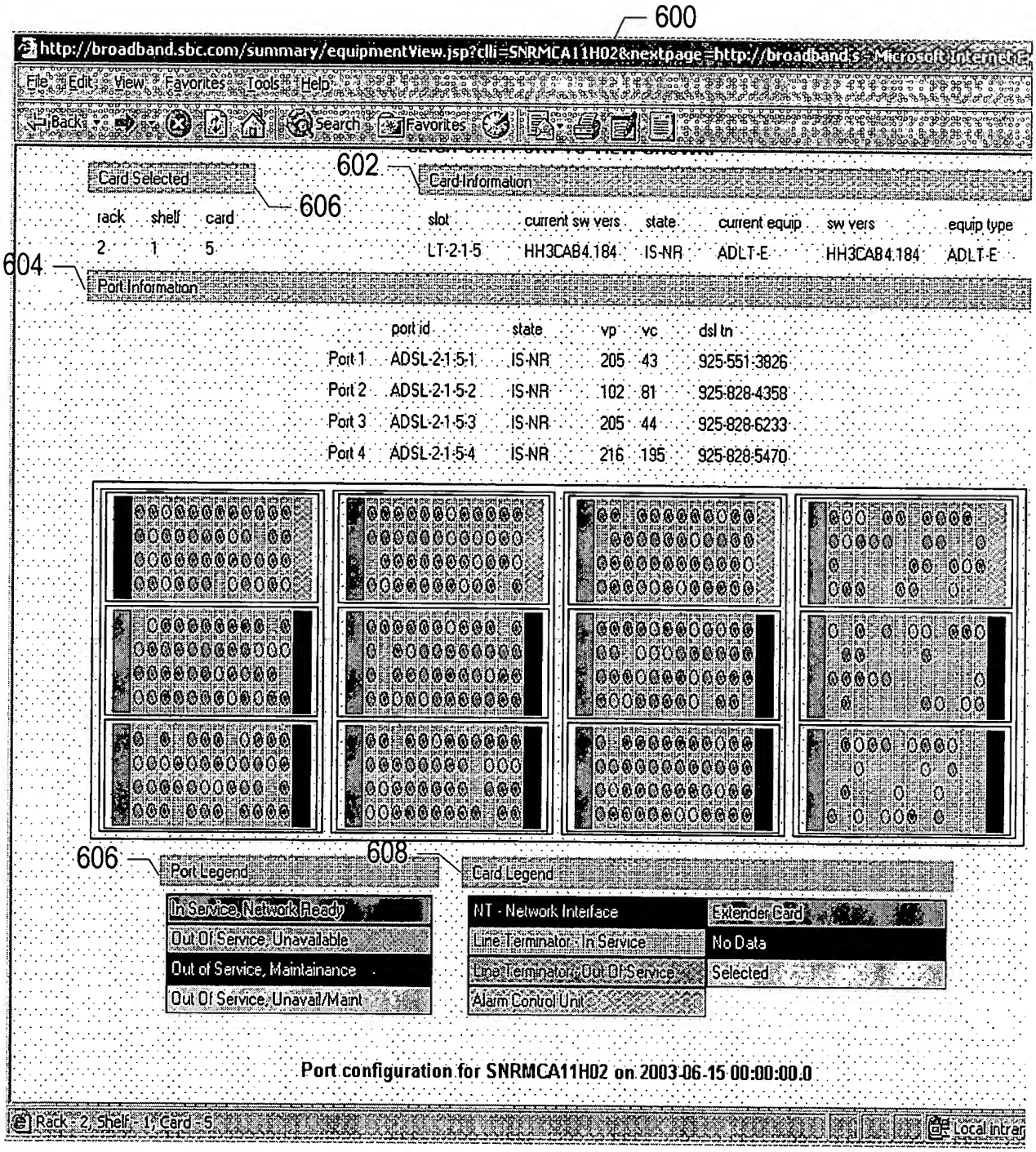

600
http://broadband.sbc.com/summary/equipmentView.jsp?clli=SNRMCA11H02&nextpage=http://broadband.s - Microsoft Internet E
File Edit View Favorites Tools Help
Back Search Favorites
602
Card Selected
Card Information
606
rack shelf card slot current sw vers state current equip sw vers equip type
2 1 5 LT-2-1-5 HH3CAB4.184 IS-NR ADLT-E HH3CAB4.184 ADLT-E
604
Port Information
port id state vp vc dsl tn
Port 1 ADSL-2-1-5-1 IS-NR 205 43 925-551-3826
Port 2 ADSL-2-1-5-2 IS-NR 102 81 925-828-4358
Port 3 ADSL-2-1-5-3 IS-NR 205 44 925-828-6233
Port 4 ADSL-2-1-5-4 IS-NR 216 195 925-828-5470
606
608
Port Legend
In Service, Network Ready
Out Of Service, Unavailable
Out of Service, Maintainance
Out Of Service, Unavail/Maint
Card Legend
NT - Network Interface
Line Terminator - In Service
Line Terminator - Out Of Service
Alarm Control Unit
Extender Card
No Data
Selected
Port configuration for SNRMCA11H02 on 2003-06-15 00:00:00.0
Rack - 2, Shelf - 1, Card - 5
Local intran

FIG. 6

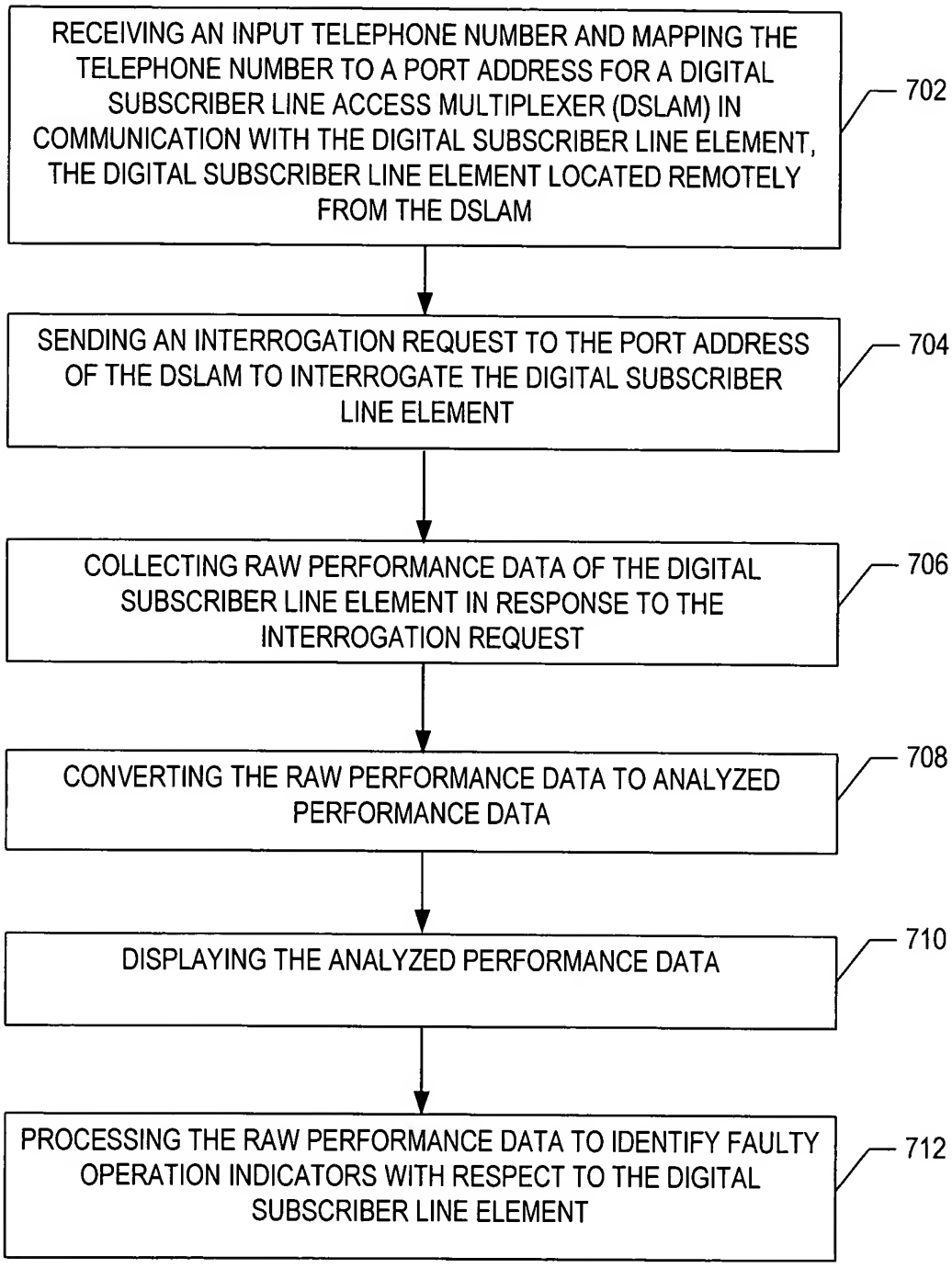

RECEIVING AN INPUT TELEPHONE NUMBER AND MAPPING THE TELEPHONE NUMBER TO A PORT ADDRESS FOR A DIGITAL SUBSCRIBER LINE ACCESS MULTIPLEXER (DSLAM) IN COMMUNICATION WITH THE DIGITAL SUBSCRIBER LINE ELEMENT, THE DIGITAL SUBSCRIBER LINE ELEMENT LOCATED REMOTELY FROM THE DSLAM
702
SENDING AN INTERROGATION REQUEST TO THE PORT ADDRESS OF THE DSLAM TO INTERROGATE THE DIGITAL SUBSCRIBER LINE ELEMENT
704
COLLECTING RAW PERFORMANCE DATA OF THE DIGITAL SUBSCRIBER LINE ELEMENT IN RESPONSE TO THE INTERROGATION REQUEST
706
CONVERTING THE RAW PERFORMANCE DATA TO ANALYZED PERFORMANCE DATA
708
DISPLAYING THE ANALYZED PERFORMANCE DATA
710
PROCESSING THE RAW PERFORMANCE DATA TO IDENTIFY FAULTY OPERATION INDICATORS WITH RESPECT TO THE DIGITAL SUBSCRIBER LINE ELEMENT
712

FIG. 7

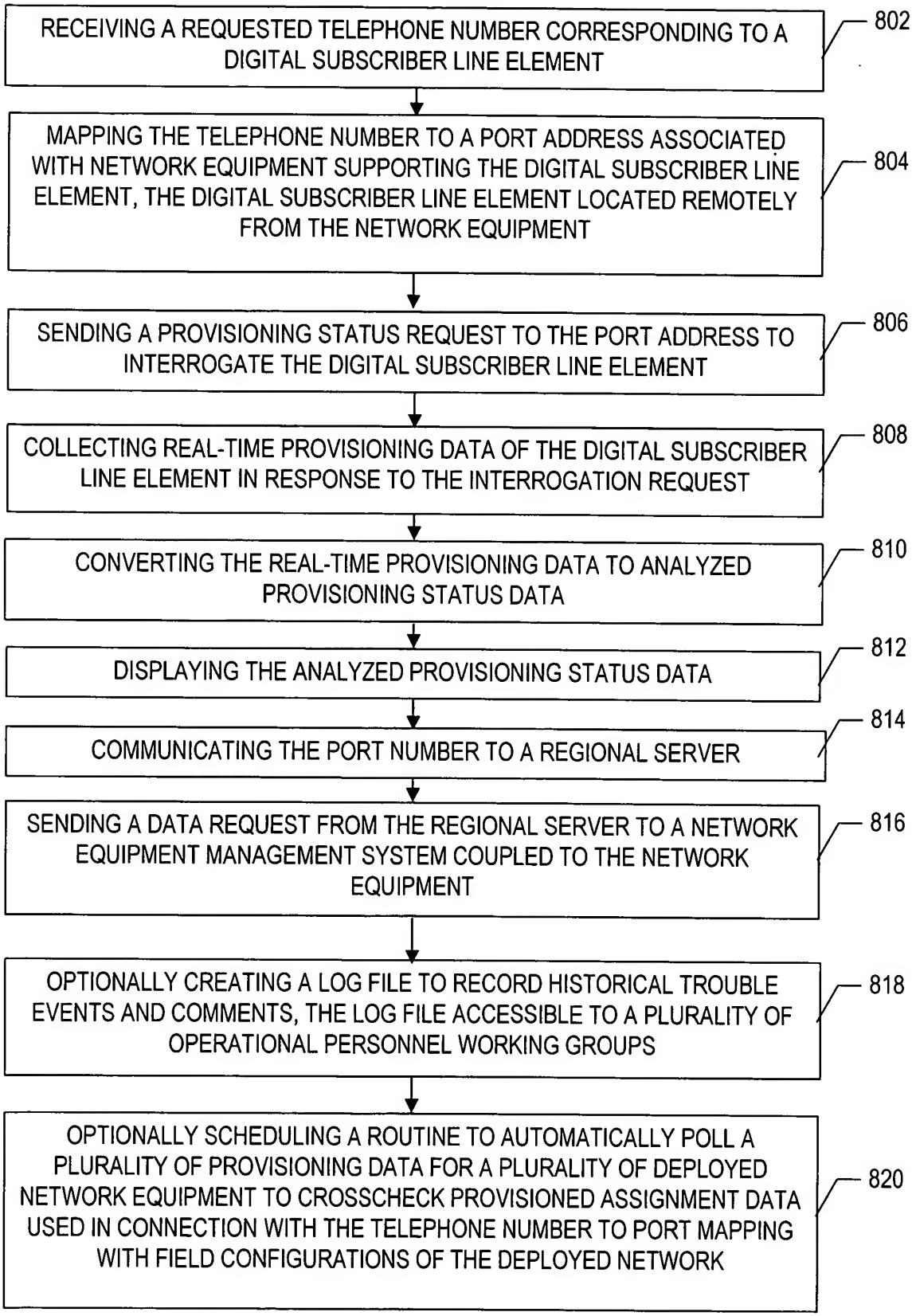

RECEIVING A REQUESTED TELEPHONE NUMBER CORRESPONDING TO A DIGITAL SUBSCRIBER LINE ELEMENT
802
MAPPING THE TELEPHONE NUMBER TO A PORT ADDRESS ASSOCIATED WITH NETWORK EQUIPMENT SUPPORTING THE DIGITAL SUBSCRIBER LINE ELEMENT, THE DIGITAL SUBSCRIBER LINE ELEMENT LOCATED REMOTELY FROM THE NETWORK EQUIPMENT
804
SENDING A PROVISIONING STATUS REQUEST TO THE PORT ADDRESS TO INTERROGATE THE DIGITAL SUBSCRIBER LINE ELEMENT
806
COLLECTING REAL-TIME PROVISIONING DATA OF THE DIGITAL SUBSCRIBER LINE ELEMENT IN RESPONSE TO THE INTERROGATION REQUEST
808
CONVERTING THE REAL-TIME PROVISIONING DATA TO ANALYZED PROVISIONING STATUS DATA
810
DISPLAYING THE ANALYZED PROVISIONING STATUS DATA
812
COMMUNICATING THE PORT NUMBER TO A REGIONAL SERVER
814
SENDING A DATA REQUEST FROM THE REGIONAL SERVER TO A NETWORK EQUIPMENT MANAGEMENT SYSTEM COUPLED TO THE NETWORK EQUIPMENT
816
OPTIONALLY CREATING A LOG FILE TO RECORD HISTORICAL TROUBLE EVENTS AND COMMENTS, THE LOG FILE ACCESSIBLE TO A PLURALITY OF OPERATIONAL PERSONNEL WORKING GROUPS
818
OPTIONALLY SCHEDULING A ROUTINE TO AUTOMATICALLY POLL A PLURALITY OF PROVISIONING DATA FOR A PLURALITY OF DEPLOYED NETWORK EQUIPMENT TO CROSSCHECK PROVISIONED ASSIGNMENT DATA USED IN CONNECTION WITH THE TELEPHONE NUMBER TO PORT MAPPING WITH FIELD CONFIGURATIONS OF THE DEPLOYED NETWORK
820

FIG. 8

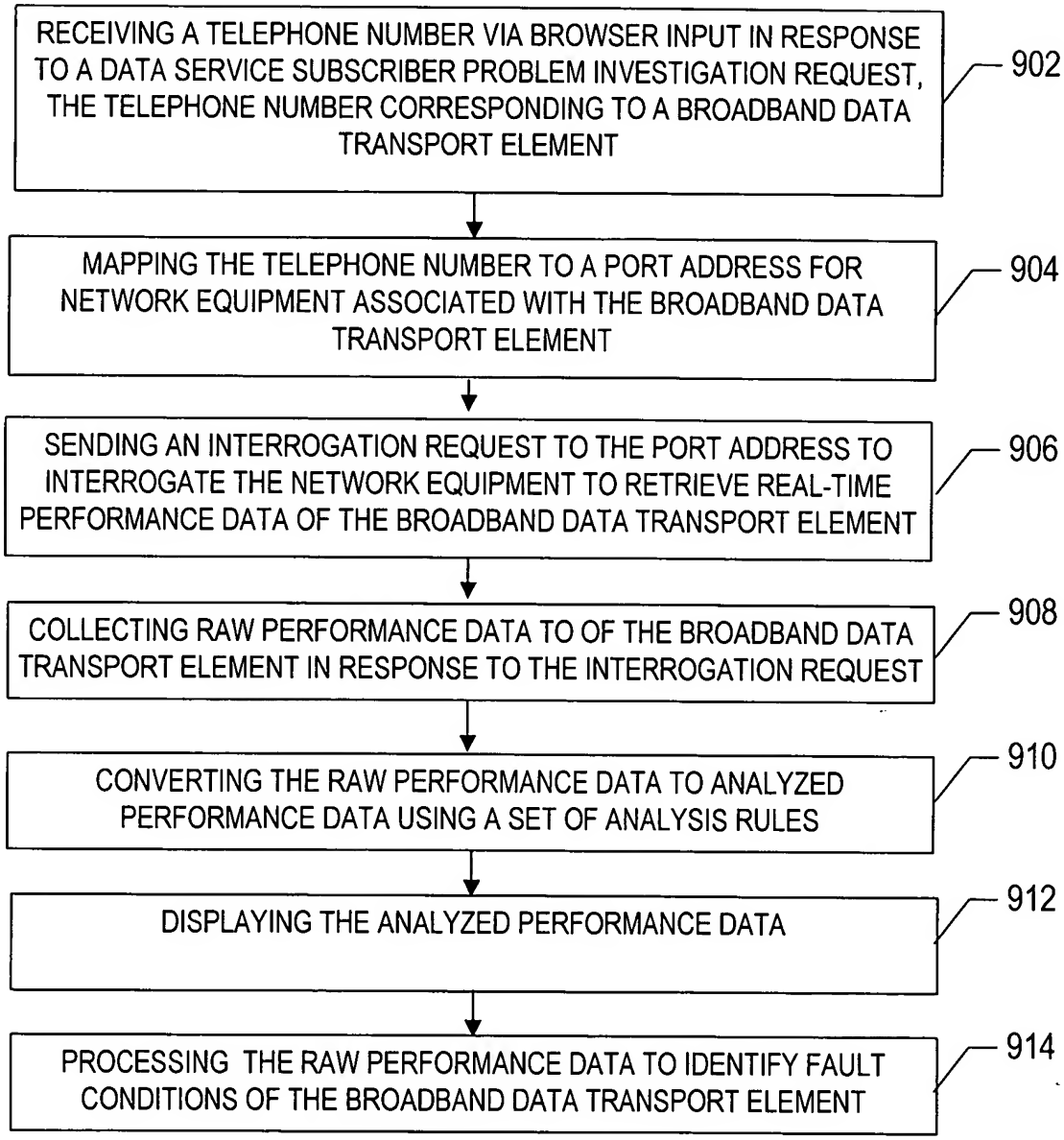

RECEIVING A TELEPHONE NUMBER VIA BROWSER INPUT IN RESPONSE TO A DATA SERVICE SUBSCRIBER PROBLEM INVESTIGATION REQUEST, THE TELEPHONE NUMBER CORRESPONDING TO A BROADBAND DATA TRANSPORT ELEMENT
902
MAPPING THE TELEPHONE NUMBER TO A PORT ADDRESS FOR NETWORK EQUIPMENT ASSOCIATED WITH THE BROADBAND DATA TRANSPORT ELEMENT
904
SENDING AN INTERROGATION REQUEST TO THE PORT ADDRESS TO INTERROGATE THE NETWORK EQUIPMENT TO RETRIEVE REAL-TIME PERFORMANCE DATA OF THE BROADBAND DATA TRANSPORT ELEMENT
906
COLLECTING RAW PERFORMANCE DATA TO OF THE BROADBAND DATA TRANSPORT ELEMENT IN RESPONSE TO THE INTERROGATION REQUEST
908
CONVERTING THE RAW PERFORMANCE DATA TO ANALYZED PERFORMANCE DATA USING A SET OF ANALYSIS RULES
910
DISPLAYING THE ANALYZED PERFORMANCE DATA
912
PROCESSING THE RAW PERFORMANCE DATA TO IDENTIFY FAULT CONDITIONS OF THE BROADBAND DATA TRANSPORT ELEMENT
914

FIG. 9